

# Philippines - Monthly Palay and Corn Situation Reporting 2010

**Bureau of Agricultural Statistics (BAS)**

Report generated on: February 16, 2023

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## Overview

### Identification

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ID NUMBER  
PHL-BAS-MPCSR-2010-v2.0

### Version

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VERSION DESCRIPTION  
V2.0 - household level data edited at the Central Office, not anonymized, for internal use only.

PRODUCTION DATE  
2010-11-25

NOTES  
This version is Central Office edited and intended for internal purposes only.

### Overview

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ABSTRACT  
The Bureau of Agricultural Statistics (BAS) has been monitoring the palay and corn situation in the country through a monthly palay and corn situation reporting (MPCSR) system since 1985. The activity aims primarily to update the forecasts (based on standing crop and planting intentions) generated through the Palay and Corn Production Survey (PCPS). Based on the findings of the MPCSR, the BAS submits a memorandum to the office of the Secretary, Department of Agriculture to inform him of the latest production status of palay and corn.

KIND OF DATA  
Sample survey data [ssd]

UNITS OF ANALYSIS  
Palay and corn farms

### Scope

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NOTES  
The MPCSR questionnaire has four sections: Block A, Block B, Block B1 and Block B2.

Block A of the questionnaire contains the sample identification which includes the geographic ID of the region, province, municipality, barangay, stratum, replicate and the reference quarter.

Block B contains information on the update of current quarter area and production of standing crop / planting intentions. This block also contains the household area enumeration code, complete name of sample agricultural operator, sample status code and the first name of the respondent.

Block B1 of the questionnaire contains the information on the current quarter area and production of standing crop aside from the household code, name of the sample, sample status and the respondent name. The current area and production include the type of ecosystem, major type of palay/corn seed used, area harvested, area of crop on vegetative stage, area of crop on reproductive stage, area of crop on maturing stage, production forecast and reasons for material change in area and production.

In Block B2, accounts for household code, and planting intentions. The information on planting intentions consist of the type

of ecosystem, area on the actual plantings for Vegetative, Reproductive, Maturing stages, expected month of harvest and reasons for material change in area.

## TOPICS

Topic	Vocabulary	URI
plant and animal distribution [9.4]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>
agricultural, forestry and rural industry [2.1]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>

## KEYWORDS

Palay, Corn, Reproductive, Vegetative, Maturing, Ecosystem, Area, Production, Standing crop, Planting intentions

## Coverage

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## GEOGRAPHIC COVERAGE

National coverage

## GEOGRAPHIC UNIT

Barangay level aggregation

## UNIVERSE

MPCSR covers palay and corn farming households with at least 0.100 hectare or 1000 square meters of operation.

## Producers and Sponsors

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## PRIMARY INVESTIGATOR(S)

Name	Affiliation
Bureau of Agricultural Statistics (BAS)	Department of Agriculture (DA)

## FUNDING

Name	Abbreviation	Role
Bureau of Agricultural Statistics	BAS	

## Metadata Production

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## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Rodrigo N. Labuguen	PSA	Philippine Statistics Authority	Documenter

## DATE OF METADATA PRODUCTION

2012-10-03

## DDI DOCUMENT VERSION

Version 1.0 (October 2012)

## DDI DOCUMENT ID

DDI-PHL-BAS-MPCSR-2010-V1.0

## Sampling

### Sampling Procedure

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The MPCSR is conducted monthly in between the Palay Production Survey (PPS)/Corn Production Survey (CPS) rounds, making use of one replicate of the PPS/PCS as sample such that:

For pure palay provinces, one replicate consisting of ten (10) barangays is taken from the PPS samples

For pure corn provinces, one replicate consisting of ten (10) barangays is taken from the CPS samples

For overlap (that is palay and corn) provinces, five (5) barangays is taken from the PPS and another five (5) barangays are taken from the CPS samples yielding only one sample of barangays for the province.

For minor palay or corn provinces, one replicate consisting of five (5) barangays are taken as samples.

For non-corn provinces, one replicate of the PPS barangay samples is taken as samples for the MPCSR.

All households in the selected barangays are enumerated. Currently, the MPCSR has a total sample size of 680 barangays nationwide.

The replicates are selected using probability proportional to size based on total palay/corn areas.

Details of the documentation of the Palay Production Survey (PPS) and Corn Production Survey (CPS) sampling procedure can be viewed from the BAS Electronic Archiving and Network Services, <http://beans.psa.gov.ph>.

### Response Rate

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Response rate for Palay Samples = 92.59 %

Response rate for Corn Samples = 100 %

### Weighting

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Sample weights are applied to all variables at the household-level. These are determined as a function of the uniform raising factor for the province, denoted by  $R_k$ , and the adjusted household weights.

$R_k$  is computed from the following characteristics: average total area planted to palay/corn per stratum, average total area planted to palay/corn per barangay, average number of farming households per barangay, average number of sample farming households per barangay and average number of sample barangays per stratum.

Sample size for the sample barangay is determined based on the following information:  $R_k$ , total number of farm households in the sample barangay, total palay/corn area of the sample barangay, aggregate palay/corn area in the stratum and number of sample barangays in the stratum.

For operational purposes, sample size per barangay is limited to a minimum of four (4) and a maximum of 25. To correct for this limitation, the use of a uniform sample weight for all sample households in the same sample barangay is instituted. Household weights are determined as a function of the computed sample size and the 'desired' sample size for the barangay, that is:

- a) 1.00 if the computed sample size is between 4 and 25;
- b) less than 1.00 if computed sample size is less than 4
- c) more than 1.00 if computed sample size is more than 25, and

d) based on computed sample size and number of farming households in the barangay if computed sample size is less than 25 and said sample size is greater than total number of farming households in the barangay.

Household weights are encoded together with other household level data. In the course of data table generation, weighting adjustment is being done to correct for unit non-response such as refusals, not-at-home, unknown and transferred to another barangay.

Computation of adjusted household weights as well as the final weight is done for each sample barangay. The adjusted weight is calculated as the product of the original household weight and the inverse of the actual response rate for the barangay. Afterwards, the final weight is determined by multiplying the adjusted weight by  $R_k$ .

Details of the above discussion are provided in the documentation of the Palay Production Survey (PPS) and Corn Production Survey (CPS) in the BAS Electronic Archiving and Network Services, <http://beans.psa.gov.ph>.

# Questionnaires

## Overview

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The MPCSR questionnaire covers Block A, Block B, Block B1 and Block B2.

Block A (Sample Identification) consists of the geographic ID of the region, province, municipality, barangay, stratum, replicate and the reference quarter.

Block B (Update of Current Quarter Area and Production of Standing Crop / Planting Intentions) identifies the enumeration area code, household serial number, name of the sample agricultural operator, sample status and the name of the respondent are defined.

Block B1 (Current Quarter's Area and Production based on Standing Crop) of the questionnaire contains the information on the current quarter area and production of standing crop. The current area and production include the type of ecosystem, major type of palay/corn seed used, area harvested, area of crop on vegetative stage, area of crop on reproductive stage, area of crop on maturing stage, production forecast and reasons for material change in area and production.

Block B2 (Update on the Current Quarter's Planting Intentions) includes data variables like the household code, types of ecosystem, area on the actual plantings for Vegetative, Reproductive, Maturing stages, expected month of harvest and reasons for material change in area.

## Data Collection

### Data Collection Dates

Start	End	Cycle
2010-02-01	2010-02-05	February 2010
2010-03-01	2010-03-05	March 2010
2010-05-01	2010-05-05	May 2010
2010-06-01	2010-06-05	June 2010
2010-08-01	2010-08-05	August 2010
2010-09-01	2010-09-05	September 2010
2010-11-01	2010-11-05	November 2010

### Data Collection Mode

Face-to-face [f2f]

### Data Collection Notes

Prior to data collection, the regular staff of the BAS Operations Centers are trained on how to accomplish the MPCSR questionnaires. The Provincial Agricultural Statistical Officer (PASO) conducts this regular training for the regular staff. The regular staff collects data from the sample barangays through face-to-face interview. The staff also edits the questionnaires and submits them to the Provincial Data Processing Officer for computer-based data processing.

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### Data Collectors

Name	Abbreviation	Affiliation
Philippine Statistical Authority	PSA	Department of Agriculture

## Data Processing

### Data Editing

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Manual coding and editing are done at the Provincial Operations Centers (POCs).

#### Provincial Level Editing

At the POCs, during the electronic data processing, checking of household serial numbers based on the masterlist of samples, consistency checks based on data ranges, and consistency checks against other data variables within the questionnaire are done by running an editing program. A completeness check program is also run to check if all sample respondents are accounted for.

#### Central Office Editing

At the Central Office, another round of editing is undertaken. This activity is done to check that the data file is totally clean.

### Other Processing

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The output tables generated from the clean data files are converted to Excel files to facilitate further data analysis.

## Data Appraisal

### **Estimates of Sampling Error**

Not computed

### **Other forms of Data Appraisal**

The estimates generated from the clean MPCSR data are reviewed at the provincial level before submitting to the Central Office.

At the Central Office, the estimates are subjected to review and validation.